Analysis of Aliphatic Alcohols by Ligand-Exchange Chromatography

Application Note

Chemical

Author

Stephen Ball

Agilent Technologies, Inc.

Introduction

This application note demonstrates how an Agilent Hi-Plex H column can be used to separate aliphatic alcohols.

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Materials and Reagents

Column	Agilent Hi-Plex H (8% crosslinked), 7.7 × 300 mm, 8 µm (p/n PL1170-6830)
Mobile phase	100% DI H_2O
Flow rate	0.6 mL/min
Temperature	40 °C
Detector	RI

Conclusion

Using only pure HPLC-grade water as eluent, the Agilent Hi-Plex H column is capable of separating a range of aliphatic alcohols. In addition to those shown in Figure 1, it may also be possible to separate a much wider range of this type of compound. Molecular weight and degree of branching are critical factors in determining the amount of retention on a Hi-Plex H column.

For More Information

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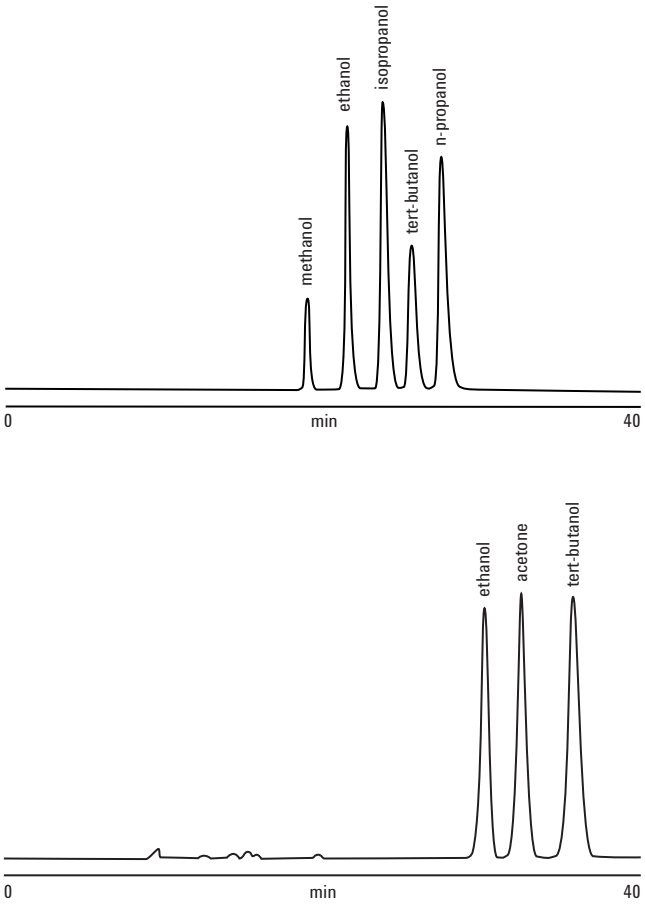

Figure 1. Separation of different aliphatic compounds on an Agilent Hi-Plex H column.

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